

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A low-friction sliding mechanism wherein a low-friction agent composition is interposed between sliding surfaces of a DLC coated sliding member (A) and a sliding member (B), wherein

the DLC coated sliding member (A) is formed by coating diamond-like carbon on a base material;

the sliding member (B) is formed with at least one kind of material selected from a group consisting of a metal material, a non-metal material and a coated material obtained by coating a thin film on a surface of the metal material or the non-metal material; and

the low-friction agent composition contains at least one kind selected from a group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind selected from a group consisting of alcohols, ~~carboxylic acids~~, esters, ethers, ~~kethones~~, ~~ketones~~, aldehydes, carbonates and derivatives thereof,

wherein the oxygen-containing organic compound (C) is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition,

~~wherein the carboxylic acids exclude saturated dicarboxylic acid;~~

wherein the aliphatic amine compound (D) has a hydrocarbon group having 6 to 30 carbon atoms and is contained in the range a of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition.

2. (Previously Presented) The low-friction sliding mechanism according to claim 1, wherein, in the sliding member (B), the metal material is at least one kind of material selected from a group consisting of a ferrous material, an aluminum alloy material and a magnesium alloy-based material; and the coated material is formed by coating a thin film of at least one kind of material selected from a group consisting of DLC, TiN and CrN.

3. (Previously Presented) The low-friction sliding mechanism according to claim 1, wherein the coated DLC has a hydrogen content of 20 atomic percent or less.

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Currently amended) A method of reducing a friction, comprising: supplying a low-friction agent composition containing at least one kind selected from the group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D) on sliding surfaces of a DLC coated sliding member (A) formed by coating diamond-like carbon and a sliding member (B) formed of at least one kind of material selected from a group consisting of a metal material, a non-metal material and a coated material obtained by coating a thin film on a surface of the metal material or the non-metal material so as to lubricate the sliding surfaces, wherein the oxygen-containing organic compound (C) is at least one kind selected from a group consisting of alcohols, ~~carboxylic acids~~, esters, ethers, ketones, aldehydes, carbonates and derivates thereof,

wherein the oxygen-containing organic compound (C) is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition,
~~wherein the carboxylic acids exclude saturated dicarboxylic acid,~~

wherein the aliphatic amine compound (D) has a hydrocarbon group having 6 to 30 carbon atoms and is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition.

11. (Canceled)

12. (Previously Presented) A manual transmission characterized by using the low-friction sliding mechanism according to claim 1.

13. (Previously Presented) A final reduction gear unit characterized by using the low-friction sliding mechanism according to claim 1.

14. (Currently amended) A low-friction agent composition that is used in the low-friction sliding mechanism according to claim 1, ~~wherein the low-friction agent composition contains at least one kind selected from the group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind selected from a group consisting of alcohols, carboxylic acids, esters, ethers, ketones, aldehydes, carbonates and derivatives thereof.~~

15. (Currently amended) A low-friction agent composition that is used in the friction reduction method according to claim 10, ~~wherein the low-friction agent composition contains at least one kind selected from the group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind selected from a group consisting of alcohols, carboxylic acids, esters, ethers, ketones, aldehydes, carbonates and derivatives thereof.~~

16. (Currently amended) A low-friction sliding mechanism wherein a low-friction agent composition is interposed between sliding surfaces of a DLC coated sliding member (A) and a sliding member (B), wherein

the DLC coated sliding member (A) is formed by coating diamond-like carbon on a base material;

the sliding member (B) is formed of at least one kind of material selected from a group consisting of a metal material, a non-metal material and a coated material obtained by coating a thin film on a surface of the metal material or the non-metal material; and

the low-friction agent composition contains at least one kind selected from a group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind selected from a group consisting of alcohols, ~~carboxylic acids~~, esters, ethers, ketones, aldehydes, carbonates and derivatives thereof,

wherein the coated DLC has a hydrogen content of 10 atomic percent or less,

wherein the oxygen-containing organic compound (C) is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition,

~~wherein the carboxylic acids exclude saturated dicarboxylic acid,~~

wherein the aliphatic amine compound (D) has a hydrocarbon group having 6 to 30 carbon atoms and is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition.

17. (Currently amended) A low-friction sliding mechanism wherein a low-friction agent composition is interposed between sliding surfaces of a DLC coated sliding member (A) and a sliding member (B), wherein

the DLC coated sliding member (A) is formed by coating diamond-like carbon on a base material;

the sliding member (B) is formed of at least one kind of material selected from a group consisting of a metal material, a non-metal material and a coated material obtained by coating a thin film on a surface of the metal material or the non-metal material; and

the low-friction agent composition contains at least one kind selected from a group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind

selected from a group consisting of alcohols, ~~carboxylic acids~~, esters, ethers, ketones, aldehydes, carbonates and derivatives thereof,

wherein the coated DLC has a hydrogen content of 0.5 atomic percent or less,

wherein the oxygen-containing organic compound (C) is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition,

~~wherein the carboxylic acids exclude saturated dicarboxylic acid;~~

wherein the aliphatic amine compound (D) has a hydrocarbon group having 6 to 30 carbon atoms and is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition.

18. (Currently amended) A low-friction sliding mechanism wherein a low-friction agent composition is interposed between sliding surfaces of a DLC coated sliding member (A) and a eliding member (B), wherein

the DLC coated sliding member (A) is formed by coating diamond-like carbon on a base material;

the sliding member (B) is formed of at least one kind of material selected from a group consisting of a metal material, a non-metal material and a coated material obtained by coating a thin film on a surface of the metal material or the non-metal material; and

the low-friction agent composition contains at least one kind selected from a group consisting of an oxygen-containing organic compound (C) and an aliphatic amine compound (D), the oxygen-containing organic compound (C) being at least one kind selected from a group consisting of alcohols, ~~carboxylic acids~~, esters, ethers, ketones, aldehydes, carbonates and derivatives thereof,

wherein the coated DLC is made of a-C diamond-like carbon that does not contain hydrogen,

wherein the oxygen-containing organic compound (C) is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition, ~~wherein the carboxylic acids exclude saturated dicarboxylic acid;~~

wherein the aliphatic amine compound (ID) has a hydrocarbon group having 6 to 30 carbon atoms and is contained in the range of 0.05 to 3.0 % mass relative to a total mass amount of the low-friction agent composition.

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)